

```
clear variables
```

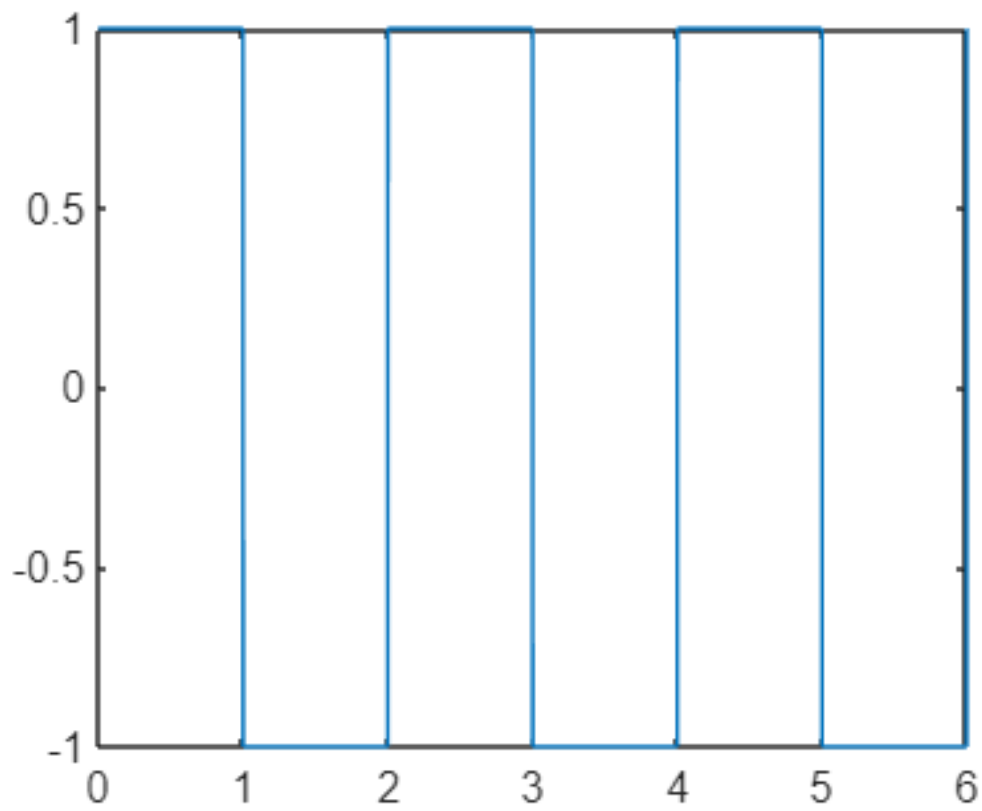
```
%ex.4
```

```
T = 1;  
w = 2*pi/T;  
n = 6;  
t = 0:T/1000:n*T;  
u = square_fct(t,w);
```

```
x = 1x1000
```

```
1 1 1 1 1 1 1 1 1 1 1 1 1...
```

```
u(6001,:) = 1;  
plot(t,u)
```



```
function u = square_fct(t,w)
    x(1:1000) = 1
    x(1001:2000) = -1;
    x = repmat(x,1,3);
    x = transpose(x);
    u = x;
end
```